DEPARTMENT OF MINES AND EXPLOSIVES.

Notification dated Coorgaum, 21st July 1947.

No. 154. With reference to Notification No. A. F. 1780—Geol. 81-42-3, dated 25th October 1943, publishing the revised Mysore Explosives Rules, 1943, the following list of "Authorised Explosives" referred to in Rule 3 of the said Rules, is published for general information :—

LIST OF AUTHORISED EXPLOSIVES.

The following explosives are at present authorised for importation into the Mysore State for general sale :—

CLASS 1.—GUNPOWDER.

The term "gunpowder" means gunpowder ordinarily so called.

GUNPOWDER.

CLASS 2.—NITRATE MIXTURE.

The term "nitrate mixture" means any preparation, other than gunpowder ordinarily so called formed by the mechanical mixture of a nitrate with any form of carbon or with any carbonaceous substance not possessed of explosive properties, whether sulphur be or be not added to such preparation, and whether such preparation be or be not mechanically mixed with any other non-explosive substance, and includes any explosive containing a perchlorate and not being a chlorate-mixture, fulminate or nitro-compound, as defined in Rule 4 of the Mysore Explosives Rules, 1917.

Every blasting explosive in this class, in which nitrate of ammonium, nitrate of sodium or chloride of sodium are used as ingredients, shall be contained in cartridge wrappers or cases (or in five pound inner packages) made thoroughly water-proof with melted paraffin or other suitable water proofing material.

BOBBINITE.

CARDOX COMPOSITION.

CLASS 3.—NITRO-COMPOUND.

The term "nitro-compound" means any chemical compound possessed of explosive properties or capable of combining with metals to form an explosive compound, which is produced by the chemical action of nitric acid (whether mixed or not with sulphuric acid), or of a nitrate mixed with sulphuric acid upon any carbonaceous substance, whether such compound is mechanically mixed with other substances or not.

The nitro-compound class has two divisions.

Every blasting explosive in this class, in which nitrate of ammonium, nitrate of sodium or chloride of sodium or nitroglycol are used as ingredients, shall be contained in cartridge wrappers or cases (or in five-pound inner packages) made thoroughly water-proof with melted paraffin or other suitable water proofing material.

Blasting Explosives in this class marked "S" may be sheathed on the outside of the cartridge but not at the ends with an approved sheathing material. The outer wrapper of any sheathed cartridge shall be sufficiently strong to prevent the escape of any of the sheathing material when the cartridge is submitted to the Jolting Test. If fireproofing material is used for the outer wrapper, it must not inter-act in any way with the sheathing material. Provided that when bicarbonate of soda is used as a sheathing material the cartridge shall be thoroughly water-proofed with paraffin wax or a mixture of ceresine and resin.

DIVISION 1.

Division 1 comprises the following explosives and any chemical compound or mechanically mixed preparation which consists either wholly or partly of nitroglycerine or of some other liquid nitro-compound :—

A. 1. Rounkol "S"
A. 2 Monobel "S"
Ajax
Ammon Gelatine Dynamite
Ammon Gelignite. } differing from the corresponding Polar Ammon Gelignite only in containing nitrated Glycerine unmixed with Poly-Glycerine or Ethylene Glycol.
Ammon Gelignite No. 2
Ammon Gelignite No. 3
Ardeer Gelignite
Ballistite
Nobel Cordite
Nobel's Explosive No. 673
N. S. Gelatine Dynamite
N. S. Gelignite
Nacota Powder
Open Cast Gelignite
Blasting Gelatine
Chilworth Smokeless Powder No. 2
Cordite
Cordite, M. D
Dynobel No. 2
Explosive 898
Gelatine Dynamite
Gelignite
Geobel
Geobel No. 2
Geobel No. 3
Improved Ballistite
L. G. Gelatine
Monobel No. 1
Polar Ammon Gelatine Dynamite

Polar Ammon Gelignite "A"	Quarry Monobel
Polar Ammon Gelignite "B"	Rockite
Polar Ammon Gelignite	Samsonita
Polar Ammon Gelignite No. 2	Samsonite
Polar Ammon Gelignite No. 3	Samsonite No. 3
Polar Dynobel No. 2, "S"	Stonobel
Polar Viking	Victor Powder No. 2
Polar Viking "S"	

Provided that every explosive in this division shall be of such character and consistency as not to be liable to liquefaction or exudation.

Provided also that an explosive which is required by definition to be issued in water-proof inner packages may be exempted from such requirements by special authority when and so long as the conditions of such authority are observed.

DIVISION 2.

Division 2 comprises the following explosives and any nitro-compound as before defined which is not comprised in Division I:—

Alumatol Ammonal	Negro Powder No. 2
Amberite No. 2	Noble Rim Neonite
Baelenite	Picric Acid
Cyclotrimethylene-Trinitramine, thoroughly purified.	Picric Powder
Di-nitro-phenol, commercially pure	Roburite No. 4
E. C. Sporting Powder	Schultze Gunpowder
Empire Powder	Smokeless Diamond
Guncotton	Tonite or Cotton Powder No. 1
Light Load Smokeless	Tonite or Cotton Powder No. 2
	Tonite No. 3
	Tri-nitro-toluol, commercially pure

CLASS 4.—CHLORATE MIXTURE.

The term "chlorate mixture" means any explosive containing a chlorate.

The chlorate mixture class has two divisions.

Every blasting explosive in this class, in which nitrate of ammonium, nitrate of sodium or chloride of sodium are used as ingredients, shall be contained in cartridge wrappers or cases (or in five-pound inner packages) made thoroughly water-proof with melted paraffin or other suitable water-proofing material.

DIVISION 1.

Division 1 comprises any chlorate preparation which consists partly of nitro-glycerine or of some other liquid nitro-compound.

Nil.

Provided that every explosive in this division shall be of such character and consistency as not to be liable to liquefaction or exudation of nitro-glycerine.

DIVISION 2.

Division 2 comprises any chlorate mixture as hereinbefore defined which is not comprised in Division 1.

Nil.

CLASS 5.—FULMINATE.

The term "fulminate" means any chemical compound or mechanical mixture, whether included in the foregoing classes or not, which from its great susceptibility to detonation, is suitable for employment in percussion caps or any other appliances for developing detonation or which from its extreme sensibility to explosion, and from its great instability (that is to say, readiness to undergo decomposition from very slight exciting causes) is especially dangerous.

This class consists of two divisions.

DIVISION 1.

Division 1 comprises such compounds of the fulminates of silver and of mercury, and preparations of those substances such as are used in percussion caps, and any preparation consisting of a mixture of a chlorate with phosphorus or certain descriptions of compounds of phosphorus, with or without the addition of carbonaceous matter, and any preparation consisting of a mixture of a chlorate with sulphur or with a sulphuret with or without carbonaceous matter.

Nil.

DIVISION 2.

Division 2 comprises such substances as the chloride and the iodide of nitrogen, fulminating gold and silver, diazobenzol, the nitrate of diazobenzol, lead azide and tetrazene.

CLASS 6.—AMMUNITION.

The term "ammunition" means any explosive of any of the foregoing classes when the same is enclosed in any case or contrivance, or is otherwise adapted or prepared so as to form a cartridge or charge for small arms, cannon or any other weapon, or to form any safety or other fuse for blasting or for shells, or to form any tube for firing explosives or to form a percussion cap, detonator, fog-signal, shell-torpedo, war-rocket, or any other contrivance other than a firework.

The term "percussion cap" does not include a detonator.

The term "detonator" means a capsule or case which is of such strength and construction and contains an explosive of the fulminate class in such quantity that the explosion of one capsule or case would communicate the explosion to other like capsules or cases.

The ammunition class has three divisions.

DIVISION 1.

Nobel's Safety Electric Fuses.

Percussion caps, each consisting of a capsule or case of metal containing an explosive of the 5th Fulminate Class, not more than 0·5 grain, the said explosive being covered and protected by a coating of tin-foil or other material approved by the Chief Inspector of Mines and Explosives in Mysore and the said capsule or case not containing an anvil; provided that where the proportion of fulminate of mercury in the composition does not exceed 25 per cent, the above limit may be increased to 0·6 of a grain. Provided also that the whole is of such strength and construction that the ignition of one such cap will not ignite other like caps.

Railway Fog-Signals, of such strength and construction and containing an explosive in such quantity that the explosion of one such signal will not communicate the explosion to other like signals.

Safety Cartridges, consisting of cartridges for small arms of which the cases can be extracted from the small arm after firing, and which are so closed as to prevent any explosion in one cartridge being communicated to other cartridges.

Safety Fuse, consisting of fuse for blasting which burns and does not explode, and which does not contain its own means of ignition, and which is of such strength and construction and contains an explosive in such quantity that the burning of such fuse will not communicate laterally with other like fuses.

DIVISION 2.

Division 2 comprises any ammunition as hereinbefore defined which does not contain its own means of ignition, and is not included in Division 1.

Cartridges for Small Arms other than Safety Cartridges.	Detonating Fuse.
Cordeau Bickford.	Electric Fuses.
Cordtex.	Electric Primers.

Fuse Igniters, each consisting of a case of paper charged with a mixture of nitrate of barium, peroxide of barium, chlorate of sodium, chlorate of potassium, sulphate of barium, rosin, zinc dust mealie meal, French chalk and linseed oil, and not containing its own means of ignition. Provided that the amount of composition in any one igniter shall not exceed 340 grains and when ignited the time of burning shall not be less than three and a half minutes (for importation only).

Instantaneous Fuse.
Quick Match.
Tubes for firing Explosives.

DIVISION 3.

Division 3 comprises any ammunition as hereinbefore defined which contains its own means of ignition, and is not included in Division 1.

Cartridges for small arms which are not Safety Cartridges.	Electric Detonators
Detonators.	Friction Tubes
"Electric Boosters" provided on arrival in India the packages are marked "Not to be stored or transported with other explosives."	Nobel's Electric Delay Action Detonators.
	Percussion Primers
	Tubes for firing Explosives

CLASS 7—FIREWORK.

The term "firework" comprises firework composition and manufactured fireworks.

DIVISION 1.—FIREWORK COMPOSITION.

The term "firework composition" means any chemical compound or mechanically mixed preparation of an explosive or inflammable nature which is used for the purpose of making manufactured fireworks and is not included in the former classes of explosives and also any star and any coloured fire composition, subject to the proviso to the definition of manufactured fireworks.

Nil.

DIVISION 2.—MANUFACTURED FIREWORKS.

Manufactured fireworks consisting of any explosive of the classes 1, 2, 3, 4 and 6 and any firework composition when such explosive or composition is enclosed in any case or contrivance or is otherwise manufactured so as to form a squib, cracker, including chinese-crackers, toy-cap or amorce, serpent rocket (other than a war-rocket), maroon, lance, wheel, Chinese-fire, Roman-candle, or other article, especially adapted for the production of pyrotechnic effects, or pyrotechnic signals or sound signals.

Provided that a substantially constructed and hermetically closed metal case, containing not more than one pound of coloured fire composition of such a nature as not to be liable to spontaneous ignition, shall be deemed to be a "manufactured firework" and not a "firework composition."

Amorces, whether in the form of toy caps or igniting tapes containing not more than 70 grains of explosive composition to every 1,000 dots of such composition.

Aluminium Torches Electric and other Sparklers Magnesium Torches Distress Signal Rockets	Provided the composition contains no chlorates.
A. R. P. Practice Incendiary Bombs Carcass Composition Practice A. R. P. Bombs.	Provided they are not issued for general sale and are manufactured only for a Government Department and are of composition approved by the Chief Inspector of Explosives in India.

Chinese Crackers made from gunpowder or nitrate mixture containing no chlorates.

Lances, provided the composition does not contain at the same time chlorates and sulphur or sulphides or aluminium.

Maroons, made from gunpowder or nitrate mixture containing no chlorates.

Pyrotechnic Matches

Rocket, Roman Candles Wonder Candles	made from gunpowder or nitrate mixture containing no chlorates and provided the stars do not contain at the same time chlorate and sulphur, or sulphide or aluminium and stars containing a chlorate are separated from contact with the gunpowder or nitrate mixture.

Serpents, made from gunpowder or nitrate mixture containing no chlorates.
Socket Light Signals.
Socket Distress Signals.
Socket Sound Signals.
Squibs made from gunpowder or nitrate mixture containing no chlorates.
Very Signal Cartridges.
Wheels containing no chlorates.

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